EARLY HAZARD RANKING SYSTEM SITE NO REFERENCES AVAILABLE



SITE SUMMARY

SCRDI Bluff Road Site Columbia, S.C.

The SCRDI Bluff Road storage site is located on State Highway 48 (Bluff Road) about 7 miles southeast of downtown Columbia, South Carolina. The property, leased from Mr. Oscar Seidenberg, covers about 7 acres, of which about 2 acres are actually used for waste storage.

The storage site is characterized by a central metal-walled building in which salvageable wastes are stored. Two small ponds located at the northern end of the site are remnants of the lime slurry disposal ponds used by the acetylene manufacturer that once occupied the property. The western pond contains dried lime and is usually dry; the eastern pond usually holds water at a depth of about 30 cm. Waste containers cover most of the open space within the storage area with the exception of an unpaved entrance drive from the highway to the building. The container are mostly 55 gallon drums of which many are stacked two-high, but smaller cans, bottles and jars are scattered throughout. The storage area is circled by a six-foot-high chain link fence which is in poor condition in several places and open near the rear of the site. Drums that have been placed between the highway and the front gate were recently enclosed by another chain link fence by order of the SCDHEC.

During early 1982, a group of responsible generators contracted with a cleanup contractor TRI, Inc., to cleanup about two thirds of the site. At the present, the preceding has been accomplished. The remaining wastes will likely be cleaned up under Superfund.

SCRADI BURFROAD SOUTH CAROLINA





Facility name: SCR+D Bluff Road
Location: Hw 48 Richard County, Noor Columbia SC
EPA Region:
Person(s) in charge of the facility:
Name of Reviewer: Christophyr M. Lack Date:
(For example: landfill, surface impoundment, pile, container; types of hazardous substances; location of the facility; contamination route of major concern; types of information needed for rating; agency action, etc.)
This is a site leased by South Carolina
Recycling and Disposal that contains about 7,200
drums of chemicals that have been improperly stored.
The drims have deteriorated and one leaking their contents
into the air and onto the ground
٠٠٠
Samuel - # 67/6 - 7.50 - 7.50 - 7.50
Scores: S _M = だらいの = 金んでい S _{SW} = パグ S _a = ググリ S _{FE} = ・金子 33
Spc = 3750

FIGURE 1 HRS COVER SHEET

	Ground Water Route Work Sheet							
	Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Max. Score	Ref. (Section)		
1	Observed Release	0 45	1		45	3.1		
1		s given a score of 45, proceed to line 4 s given a score of 0, proceed to line 2.			•			
2	Route Characteristics Depth to Aquifer of Concern	<u> </u>	2	s.	6	3.2		
	Net Precipitation Permeability of the Unsaturated Zone	0 1 2 3 0 1 2 3	1	2	3 3			
	Physical State	0 1 2 3	1	5	3			
		Total Route Characteristics Score		-2	15			
3	Containment	0 1 2 3	1	ر ع	3	3.3		
4	Waste Characteristics Toxicity/Persistend Hazardous Waste Quantity	e 0 3 6 9 12 15 18	1	97	18 8	3.4		
		Total Waste Characteristics Score		25	26			
5	Targets Ground Water Use Distance to Neares Well/Population Served	0 1 2 3 0 4 6 8 10 12 16 18 20 24 30 32 35 40	3	9.	9	3.5		
					,	;		
		Total Targets Score	:	ر. ر	49	· · · · · · · · · · · · · · · · · · ·		
1		Itiply 1 x 4 x 5 iply 2 x 3 x 4 x 5		35 ₁ (22)	57,330			
7	Divide line 6 by 5	7,330 and multiply by 100	Sgw=	61.	22			

FIGURE 2
GROUND WATER ROUTE WORK SHEET

	Surface Water Route Work Sheet Assigned Value Multi- Max.								
Rating Factor		(Circle One)	plier	Score	Score	Ref. (Section)			
1 Observed Release	e	0 .45	1	45	45	4.1			
		n a value of 45, proceed to line 4. n a value of 0, proceed to line 2.				•			
2 Route Characteris	stics			<u> </u>		4.2			
Facility Slope at Terrain		ning 0 1 2 3	1		3				
1-yr. 24-hr. Rain		0 1 2 3 ace 0 1 2 3	1		3				
Distance to Nea Water	irest Suna				6				
Physical State		0 1 2 3	1		3	,			
		Total Route Characteristics Score			15				
3 Containment		0 1 2 3	1		3	4.3			
Waste Characteris Toxicity/Persist Hazardous Was Quantity	1	<i>ω</i> 1.	18	4.4					
 ,									
i.		Total Waste Characteristics Score		(1)	26				
5 Targets						4.5			
Surface Water L Distance to a Se		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	3 2	ی	, g				
Environment			_	2	6				
Population Service to Water Intake Downstream		ce 0\ 4	1	0	40				
		Total Targets Score		8	55				
	multini.	1 × 4 × 5		a 0600					
6 If line 1 is 45, If line 1 is 0, r		2 x 3 x 4 x 5		3 Ge 21	64,350				

FIGURE 7
SURFACE WATER ROUTE WORK SHEET

Air Route Work Sheet							
Rating Factor	Assigne (Circle		Multi- plier	Score	Max. Score	Ref. (Section)	
1 Observed Release	0	45	1	K.)	45	5.1	
Date and Location:							
Sampling Protocol:		·: .					
	0. Enter on line occeed to line 2			,			
Waste Characteristics Reactivity and Incompatibility	0 1 2	<u></u>	1	3	3	5.2	
Toxicity Hazardous Waste Quantity	0 1 2 0 1 2	(3) 3 4 5 6 7 8	3 1	G 	9 8		
	· .		•				
	Total Waste Cha	racteristics Score		, 3 [°]	20		
Targets Population Within 4-Mile Radius Distance to Sensitive) 0 9 12 } 21 24 27 0 1 2	15 18. 30	1	€.	30	5.3	
Environment Land Use	0 1 2	3	1	3	3		
					•	· .	
•							
							
	Total Tar	gets Score	•	.T. (39		
Multiply 1 x 2 x 3	3			ान व इंड	35,100	-	
5 Divide line 4 by 35,100	and multiply by 1	00	Sa ≖	511	ć		

FIGURE 9 AIR ROUTE WORK SHEET

	s	s²
Groundwater Route Score (Sgw)	61,22	TT-1-11 39
Surface Water Route Score (S _{SW})	13.99	24,77
Air Route Score (Sa)	51.16	26 A 30
$S_{gw}^2 + S_{sw}^2 + S_a^2$		1, 4 + 2, 9?
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2}$		ے _{0.} تا
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2} / 1.73 = s_M =$		45.21

FIGURE 10 WORKSHEET FOR COMPUTING S_M

Fire and Explosion Work Sheet										
Rating Factor	Rating Factor Assigned Value Multi- (Circle One) Slier							Score	Max. Score	Ref. (Section)
1 Containment		1			3		.1	3	3	7.1
Waste Characteris Direct Evidence Ignitability Reactivity Incompatibility Hazardous Wast Quantity		0 0 0 0	1 2 1 2 1 2 1 2	3 3	4 5	6 7 8	1 1 1 1	- 13 - 4 - 4	3 3 3 3 8	7.2
		Total Was	ste Ch	aracte	eristic	s Score		;	20	
Targets Distance to Near		0	1 2		4 5		1		5	7.3
Distance to Near Building Distance to Sens Environment		0	1 2			<u></u>	1	3	3	
Land Use Population Within 2-Mile Radius Buildings Within		0	1 2 1 2	3	4 5 4 5		1 1	200	3 5 5	•
2-Mile Radius		v		J	- 3		,	•		
•	_									,
		То	tai Ta	rgets	Score			1.5	24	
4 Multiply 1 x	2 × 3							٠, د	1,440	
5 Divide line 4 by 1,440 and multiply by 100 SFE = 50.000										

FIGURE 11
FIRE AND EXPLOSION WORK SHEET

		Dire	ct Cor	ntact Wo	rk Sheet			· · ·	
	Rating Factor			d Value One)		Multi- plier	Score	Max. Score	Ref. (Section)
1	Observed Incident	0		45		1		45	8.1
	If line 1 is 45, proceed If line 1 is 0, proceed			·					
2	Accessibility	0	1 2	3		1		3	8.2
3	Containment	0	15			1		15	8.3
4	Waste Characteristics Toxicity	0	1 2	3		5	10	15	8.4
5	Targets Population Within a 1-Mile Radius Distance to a Critical Habitat	0	1 2 1 2	3 4 5		4		20 12	8.5
		Tota	al Tarç	jets Sco	·e	•	12	32	
6	If line 1 is 45, multiply If line 1 is 0, multiply		× 5 × 4	× 5			ريد <u>د</u>	21,600	•
7	Divide line 6 by 21,600	and multipl	y by 1	00		s _{DC} =	~~	15.7	
		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·				······································		··········

FIGURE 12 DIRECT CONTACT WORK SHEET

DOCUMENTATION RECORDS FOR HAZARD RANKING SYSTEM

INSTRUCTIONS: The purpose of these records is to provide a convenient way to prepare an auditable record of the data and documentation used to apply the Hazard Ranking System to a given facility. As briefly as possible summarize the information you used to assign the score for each factor (e.g., "Waste quantity = 4,230 drums plus 800 cubic yards of sludges"). The source of information should be provided for each entry and should be a bibliographic-type reference that will make the document used for a given data point easier to find. Include the location of the document and consider appending a copy of the relevant page(s) for ease in review.

FACILITY NAME: SCR+D Bluff Rd.

LOCATION: HUS 48 Richland County New Columbia SC

GROUND WATER ROUTE

1 OBSERVED RELEASE

Contaminants detected (5 maximum):

Carlin tetradeoute

i) tetraclorection

=) efficieform

4) dichecipangers
5) bromodiower with
Rationale for attributing the contaminants to the facility:

2 ROUTE CHARACTERISTICS

Depth to Aquifer of Concern

Name/description of aquifers(s) of concern:

Depth(s) from the ground surface to the highest seasonal level of the saturated zone [water table(s)] of the aquifer of concern:

Depth from the ground surface to the lowest point of waste disposal/ storage:

	_			
M ~ ₩	D	~~ 1	 	-100
NEL		= - 1	 	rion

Mean annual or seasonal precipitation (list months for seasonal):

Mean annual lake or seasonal evaporation (list months for seasonal):

Net precipitation (subtract the above figures):

Permeability of Unsaturated Zone

Soil type in unsaturated zone:

Permeability associated with soil type:

Physical State

Physical state of substances at time of disposal (or at present time for generated gases):

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Method with highest score:

4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated:

Carpon tetracklowcli

Compound with highest score:

Carbon Tetrachiconshi

3-3

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give a reasonable estimate even if quantity is above maximum):

7500 duma

Basis of estimating and/or computing waste quantity:

5 TARGETS

Ground Water Use

Use(s) of aquifer(s) of concern within a 3-mile radius of the facility:

Distance to Nearest Well

Location of nearest well drawing from <u>aquifer of concern</u> or occupied building not served by a public water supply:

garage next door

Distance to above well or building:

500 feet

Population Served by Ground Water Wells Within a 3-Mile Radius

Identified water-supply well(s) drawing from aquifer(s) of concern within a 3-mile radius and populations served by each:

quet ada cuer 1,000 people in 3 mile radius

Computation of land area irrigated by supply well(s) drawing from aquifer(s) of concern within a 3-mile radius, and conversion to population (1.5 people per acre):

Total population served by ground water within a 3-mile radius:

1,100 country Westingham facility

SURFACE WATER ROUTE

1 OBSERVED RELEASE 45

Contaminants detected in surface water at the facility or downhill from it (5 maximum):

Contaminant, in perdir site chlosoform, trusherettene, tainene

Rationale for attributing the contaminants to the facility:

the pord is on with a secret water runs of into a place.

2 ROUTE CHARACTERISTICS

Facility Slope and Intervening Terrain

Average slope of facility in percent:

Name/description of nearest downslope surface water:

Average slope of terrain between facility and above-cited surface water body in percent:

Is the facility located either totally or partially in surface water?

Is the facility completely surrounded by areas of higher elevation? 1-Year 24-Hour Rainfall in Inches Distance to Nearest Downslope Surface Water Physical State of Waste 3 CONTAINMENT Containment Method(s) of waste or leachate containment evaluated: Method with highest score:

4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated
Chloroform

Compound with highest score:

chloroform

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give a reasonable estimate even if quantity is above maximum):

7500 drums

Basis of estimating and/or computing waste quantity:

and plate

5 TARGETS

Surface Water Use

Use(s) of surface water within 3 miles downstream of the hazardous substance:

recuritional

Is there tidal influence?

M

Distance to a Sensitive Environment

Distance to 5-acre (minimum) coastal wetland, if 2 miles or less:

Distance to 5-acre (minimum) fresh-water wetland, if I mile or less:

There is a fretland (la) than I mile away

Distance to critical habitat of an endangered species or national wildlife refuge, if I mile or less:

Population Served by Surface Water

Location(s) of water-supply intake(s) within 3 miles (free-flowing bodies) or 1 mile (static water bodies) downstream of the hazardous substance and population served by each intake:

NONE

Computation of land area irrigated by above-cited intake(s) and conversion to population (1.5 people per acre):

Total population served:

None

Name/description of nearest of above water bodies:

Distance to above-cited intakes, measured in stream miles.

AIR ROUTE

1	00257450	KELLASI
Ca		daracted

MEK

April 23, 1982 on the boundary of the site.

Methods used to detect the contaminants:

netter, HNu etc.

Rationale for attributing the contaminants to the site:-

I was detected coming from levising dum as well as at the cite kourdary.

2 WASTE CHARACTERISTICS

Reactivity and Incompatibility

Most reactive compound:

Pierre acid

Most incompatible pair of compounds:

attended to specification to specification

~		_	•	_	•		
Т	О	х	ı	С	1	Ε	v
	_		_			_	-

Most toxic compound:

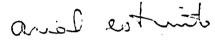
Chlosperm

Hazardous Waste Quantity

Total quantity of hazardous waste:

7500 dum

Basis of estimating and/or computing waste quantity:



3 TARGETS

Population Within 4-Mile Radius

Circle radius used, give population, and indicate how determined:

900 persons work at Westungham which is 6 1/2 inte aux

Dabat 4000 person from may count

Distance to a Sensitive Environment

Distance to 5-acre (minimum) coastal wetland, if 2 miles or less:

ج کے

Distance to 5-acre (minimum) fresh-water wetland, if I mile or less:

Distance to critical habitat of an endangered species, if I mile or less:

Land Use

Distance to commercial/industrial area, if I mile or less:

Weatinglows property vegen scross the attended naturally

Distance to national or state park, forest, or wildlife reserve, if 2 miles or less:

n/K

Distance to residential area, if 2 miles or less:

haves are within I mile of puto

Distance to agricultural land in production within past 5 years, if I mile or less:

11/17

Distance to prime agricultural land in production within past 5 years, if 2 miles or less:

MP

Is a historic or landmark site (National Register or Historic Places and National Natural Landmarks) within the view of the site?

n/H

011 Name (62) T 21 (6 0 1		541
Site Name SCRDI Bluff Road		
City Columbia State 5	<u>C</u>	· · · · · · · · · · · · · · · · · · ·
Facility I.D. Number SCD000622787	7	, Toronto a
Type of Facility: Generator Transporter T	SD	-
I. RCRA APPLICABILITY	yes	no
Does the facility have RCRA interim status?	<u>v</u>	
Did the facility ever have RCRA interim status?	· · <u>·</u>	-
Does the facility have a final or post-closure permit? If so, date issued		
Is the facility a non-notifier that has been identified by States or EPA?		<u> </u>
Is the facility a known or possible protective filer?	· —	<u> </u>
STOP HERE IF ALL ANSWERS TO QUESTIONS IN SECTION II. FINANCIAL STATUS	I ARE NO	• •
Is the facility owned by an entity that has filed for bankruptcy under federal laws (Chapter 7 or 11) State laws? If yes, what has it filed under? Chapter 7 Chapter 11 Other	or	<u></u>
III. ENFORCEMENT		
RCRA Status		
Has the facility lost authorization to operate via LOIS, 3005(c) permit denial, 3008(h) IS termination, 3005(d) permit revocation?	·	(Nrck
Has the facility's Interim Status been terminated via another mechanism (i.e. administrative termination)?		*.

CERCLA Status

What CERCLA financed remedial or removal activities have been initiated at the site? (RI/FS, RD/RA, O&M, forward planning, and removal; does not include enforcement or PA/SI activities) RI Completed, FS not started yet.

Enforcement Status

In general, would you characterize the facility as demonstrating an unwillingness to undertake corrective action based on prior State, CERCLA or RCRA actions?

If yes, please describe and cite the authorities exercised.

SCOHEC reported to EPH April 1, 1982 that

YES

NO

Is the owner/operator a party to any enforcement action at the site?

If not, why not? Generators have been involved in successful cost recovery

Are any PRPs (including owner/operators) undertaking remedial studies or action in response to CERCLA enforcement authorities? What is the extent/type of work that has been completed (RI/FS, etc.) and who (generators, owner/operator, etc.) is conducting the work? $N_{\mathcal{O}}$.